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J.K. Samoil and G.B. Turtle

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The Northern Forestry Centre of the Canadian Forestry Service is responsible for fulfilling the federal role in forestry research, regional development, and technology transfer in Alberta, Saskatchewan, Manitoba, and the Northwest Territories. The main objectives of the center are research and regional development in support of improved forest management for the economic, social, and environmental benefit of all Canadians. The center also has responsibility for the implementation of federal-provincial forestry agreements in the three prairie provinces.

One of six regional centers, two national forestry institutes, and a headquarters unit, the Northern Forestry Centre is located in Edmonton, Alberta, and has district offices in Prince Albert, Saskatchewan, and Winnipeg, Manitoba.

NORTHERN FORESTRY CENTRE PUBLICATIONS, 1980–86

J.K. Samoil and G.B. Turtle

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ABSTRACT

Scientific, technical, and interpretive publications written by staff of the Northern Forestry Centre or published by the Centre during 1980-86 are listed alphabetically by author. A subject index is provided for the main entries. In addition, there is an appendix listing reports prepared under the federal–provincial forestry development agreements for Alberta, Saskatchewan, and Manitoba.

RESUME

Ce document énumère alphabétiquement (par auteur) les publications scientifiques et techniques ainsi que les ouvrages de vulgarisation qui ont été rédigés par le personnel du Centre de foresterie du Nord ou publiés par le Centre entre 1980 et 1986. Un index des sujets est présenté pour les notices principales. On y trouve également à l'annexe une liste des rapports préparés dans le cadre des ententes fédérales–provinciales sur la mise en valeur des ressources forestières signées avec l'Alberta, la Saskatchewan et le Manitoba.

PREFACE

The Northern Forestry Centre has produced a wealth of forest research literature since it opened in 1970. Earlier general bibliographies cover research from the former Manitoba-Saskatchewan region prior to 1968 (Hildahl et al. 1968) and for the prairie provinces and Northwest Territories from 1968 to 1979 (Dendwick et al. 1980). This newest bibliography lists nearly 500 publications by staff of the Northern Forestry Centre (until 1985 called the Northern Forest Research Centre) that were published during 1980–86.

Listed alphabetically by author are Information Reports, Forestry Reports, Forest Management Notes, Program Reviews, and Pest Leaflets—all published by the Northern Forestry Centre—plus journal and symposium articles and miscellaneous publications. A subject index provides a convenient means of locating authors by topic. In addition, there is an appendix listing reports that were prepared under the Canada–Alberta Forest Resource Development Agreement, Canada–Saskatchewan Forest Resource Development Agreement, and Canada–Manitoba Forest Renewal Agreement.

This bibliography is intended to be an aid to research and should not be considered a catalogue for ordering. Although many of the Northern Forestry Centre publications that are more than a few years old are already out of print, photocopies will be provided when feasible. Limited copies of material produced by other publishers are available from the Northern Forestry Centre, but whenever possible these publications should be obtained from their publisher or a library.

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NOTE

The exclusion of certain manufactured products does not necessarily imply disapproval nor does the mention of other products necessarily imply endorsement by the Canadian Forestry Service.

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APPENDIX 1
FORESTRY DEVELOPMENT AGREEMENT REPORTS

The following reports were prepared by private contractors or by staff of the Northern Forestry Centre and its district offices in Prince Albert, Saskatchewan, and Winnipeg, Manitoba from funds provided by the three federal–provincial forestry development agreements, which are in effect for the period 1984–89. The Canada–Alberta Forest Resource Development Agreement, for $23 million, is administered by the Canadian Forestry Service and Alberta Forestry, Lands and Wildlife. The Canada–Saskatchewan Forest Resource Development Agreement, for $28 million, is between the Canadian Forestry Service and Saskatchewan Parks, Recreation and Culture. The Canada–Manitoba Forest Renewal Agreement, for $27.2 million, is administered by the Canadian Forestry Service and Manitoba Natural Resources. Copies of the agreements are available on request.

Alberta

The following reports prepared under the Canada–Alberta Forest Resource Development Agreement may be obtained from

Regional Development
Northern Forestry Centre
Canadian Forestry Service
5320 - 122 Street
Edmonton, Alberta T6H 3S5
(403) 435-7210

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Saskatchewan

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Saskatchewan District Office
Canadian Forestry Service
101 - 15th Street East
Prince Albert, Saskatchewan S6V 1G1
(306) 764-5627

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Parry Martens Public Relations Inc. 1985. Attitudinal study report for the Canada-Saskatchewan Forest Resource Development Agreement.

Manitoba

The following reports prepared under the Canada–Manitoba Forest Renewal Agreement may be obtained from

Manitoba District Office
Canadian Forestry Service
104, 180 Main Street
Winnipeg, Manitoba R3C 1A6
(204) 949-4817

De Franceschi, J.P.; Steele, T. 1986. Labor productivity for pre-commercial selection thinning in young coniferous stands in Alberta.

Giles, D.R. (Forintek Canada Corp.); Bohning, R.A. 1986. Directory of primary wood-using industries in Manitoba, 1985.

Steele, T.; De Franceschi, J.P. 1986. Machine productivity for shear blade site preparation in Manitoba.

Wells, R.E. [no date] Development of a methodology and rationale for a forest management site classification system for Manitoba.

SUBJECT INDEX

The subject index on the following pages lists alphabetically the main topics of research at the Northern Forestry Centre during 1980–86. Many of these topics are further broken down into more-specific categories. Within each topic or category are listed alphabetically the appropriate author and year citations, most of which appear more than once. The topics and categories are as follows:

Aspen and poplar
Climate
Economics
ENFOR (ENergy from the FORest program)
Fire
  Ecology
  Forecasting and Detection
  Management
  Prescribed Burning
  Suppression
Growth and Yield
  Natural Stands
  Stand and Growth Models
  Thinning and Fertilizing
Insects and Diseases
  Control
  Diseases
  Insects
  Surveys
Inventory and Land Classification
  Land Classification and Use
  Parks Program
  Remote Sensing and Forest Inventory
  Soil and Soil Types
Jack Pine
Lodgepole Pine
Northern Forestry Centre Program
Northern and Arctic Program
Regeneration
  Artificial
  Ecology
  Natural
  Nurseries
  Tree Improvement
Toxic Substances
  Air
  Soil
Watersheds and Hydrology
White Spruce

Please note that the reports prepared under the three forestry development agreements (listed in Appendix 1) are not included in this index.

ASPEN AND POPLAR

(*Populus tremuloides* Michx. and *P. balsamifera* L.)

Bella 1984a, 1986a
Bella and De Franceschi 1980a, b
Edwards 1984a, b
Hall, Crown, and Titus 1984
Hiratsuka 1984
Hiratsuka and Loman 1984
Johnstone and Peterson 1980
L'Hirondelle et al. 1986
Ondro 1984a
Ondro and Bella 1984
Singh and Micko 1984

CLIMATE

Addison and Bliss 1980
Bernier and Plamondon 1983
Jozsa et al. 1984
Peterson, Peterson, and Kabzems 1983
Powell 1980a, c, 1981a, b, 1982a, b, 1983a, b, 1984a, d
Powell and Phillips 1983
Singh 1985c, 1986c
Singh and Powell 1986
Swanson 1980
Zalasky 1980b, 1984, 1985a, b

ECONOMICS

Banskota et al. 1985
Bohning 1986
Giles and Bohning 1986
Kiil and Ondro 1982
Ondro, Bohning, Stewart, and Stevenson 1980, 1981
Ondro, Karaim, Bohning, and Stevenson 1980
Ondro and Williamson 1982, 1984, 1985
Phillips et al. 1986
Samoil and Turtle 1982a-c

ENFOR

(ENergy from the FORest program)

Bella 1984a-d
Bella and De Franceschi 1980a
Edwards 1984a, b
Johnstone and Peterson 1980
Jozsa et al. 1984

Lee 1982
Moore and Chow 1983
Ondro 1984a, c
Ondro and Bella 1984
Ondro and Stewart 1983
Peterson, Levson, and Kabzems 1982
Peterson, Peterson, and Kabzems 1983
Powell 1984b, c
Powell and Jozsa 1984
Samoil and Turtle 1984a
Singh 1982a, b, 1983a, c, d, 1984a-f, i, 1986a, d, e
Singh and Micko 1984

FIRE

Ecology

Chrosciewicz 1980, 1983a-c, 1986a, b
Delisle and Dubé 1983
Dubé 1985
Lawson et al. 1985
Samoil and Turtle 1983

Forecasting and Detection

Alexander 1982a-d, 1983a-c, 1984a, b
Dubé 1985
Lawson et al. 1985
McAlpine 1986
Samoil and Turtle 1983

Management

Alexander 1985a
Dubé 1983a, b, 1984, 1985
Harvey et al. 1986
Kiil et al. 1986
Samoil and Turtle 1983

Prescribed Burning

Alexander 1984b
Alexander and McRae 1984
Dubé 1985
Samoil and Turtle 1983

Suppression

Alexander 1985b
Alexander and Dubé 1983
Alexander et al. 1983
Dubé 1985
Haggarty et al. 1983
Hodgson and Newstead 1983
Lieskovsky and Newstead 1980
Lynch 1983
Maffey 1983
Newstead 1980, 1981
Newstead and Alexander 1983
Newstead and Lieskovsky 1983, 1985
Newstead and Potter 1981
Ogilvie 1981, 1982, 1983
Ogilvie and Bihuniak 1983
Potter et al. 1981
Samoil and Turtle 1983

GROWTH AND YIELD

Natural Stands

Bella 1984b-d, 1986b
Bohning 1981
Chrosciewicz 1986a, b
Drouin 1985
Froning 1981a, b
Gorman 1985
Hall 1984
Johnstone 1981a, b, 1982a, b, 1984
Sakai et al. 1979
Samoil and Turtle 1984a
Waldron and Samoil 1981
Yang 1983b
Zalasky 1980a, 1984, 1985a, b, 1986a, b

Stand and Growth Models

Bella 1983, 1984a
Corns 1985a, b
Corns and Pluth 1984
Gorman 1985
Grewal 1985
Pluth and Corns 1983
Samoil and Turtle 1984a
Singh 1984g, h, 1985b

Thinning and Fertilizing

Bella 1986c
Bella and De Franceschi 1980c, 1982
Denyer 1984a
Dyck 1985
Edwards 1981, 1982, 1986
Froning 1980
Ondro 1984b
Ondro and Love 1979
Samoil and Turtle 1984a
Yang 1983a, 1984, 1985a, b
Yang and Bella 1986

INSECTS AND DISEASES

Control

Drouin 1982a, b, 1984c, e, 1985
Drouin and Kusch 1980, 1981
Ives and Cunningham 1980
Ives et al. 1982, 1984a-c
Muldrew and Ives 1984
Soehngen and Drouin 1982

Diseases

Allen and Hiratsuka 1985
Ayer and Hiratsuka 1984
Ayer, Hoyano, van Altena, and Hiratsuka 1982
Ayer, Lee, Tsuneda, and Hiratsuka 1980
Bella 1985a
Cummins and Hiratsuka 1983
Denyer 1984b
Dudynsky 1983
Fairbairn et al. 1983
Hiratsuka 1980, 1981a-c, 1984, 1986
Hiratsuka, Cerezke, Moody, Petty, and Still 1982
Hiratsuka, Cerezke, and Petty 1980
Hiratsuka, Cerezke, Petty, and Still 1981
Hiratsuka and Hiratsuka 1980
Hiratsuka and Loman 1984
Hiratsuka and Maruyama 1985
Hiratsuka and Sato 1982
Hiratsuka and Takai 1982
Hughes and Hiratsuka 1981
Ives 1983
Kakishima et al. 1984
Mallett and Hiratsuka 1985, 1986
Maruyama 1984a, b
Maruyama and Hiratsuka 1985
Richards et al. 1982
Takai and Hiratsuka 1980, 1984
Takai et al. 1980
Têtu-Bernier, Allen, and Hiratsuka 1983
Têtu-Bernier, Maruyama, and Hiratsuka 1983
Tsuneda and Hiratsuka 1979, 1980, 1981a, b, 1982, 1984
Tsuneda, Hiratsuka, and Maruyama 1980
Tsuneda, Malloch, and Hiratsuka 1985

Insects

Amirault and Brown 1986
Bella 1985a, b
Caltrell 1984
Cerezke 1980a, b, 1981a, b, 1982a, b
Cerezke, Borden, and Trott 1984
Cerezke and Drouin 1982
Cerezke, Drouin, and Neill 1982
Cerezke and Holmes 1986
Denyer 1984b
Drouin 1981, 1984a-f
Drouin and Kusch 1980, 1981
Drouin and Wong 1984
Hall 1982a, b
Hall, Crown, and Titus 1984
Hildahl 1984a, b, c
Hiratsuka, Cerezke, Moody, Petty, and Still 1982
Hiratsuka, Cerezke, and Petty 1980
Hiratsuka, Cerezke, Petty, and Still 1981
Ives 1981a, b, 1983, 1984a-c
Ives and Cunningham 1980
Ives et al. 1982
Kusch 1984a-f
Moody 1982
Moody and Cerezke 1983, 1984, 1985, 1986
Muldrew and Ives 1984
Powell 1982c
Sigler et al. 1981
Still 1980, 1981, 1982, 1984
Tidsbury 1984
Volney 1985a-c
Wong 1981, 1982
Wong, Drouin and Rentz 1985
Wong, Drouin, Szlabey, and Dang 1983
Wong and Szlabey 1986
Wong and Tidsbury 1983

Surveys

Drouin 1982a, 1985
Hiratsuka, Cerezke, Moody, Petty, and Still 1982
Hiratsuka, Cerezke, and Petty 1980
Hiratsuka, Cerezke, Petty, and Still 1981
Moody and Cerezke 1983, 1984, 1985
Still 1984

INVENTORY AND LAND CLASSIFICATION

Land Classification and Use

Bailey et al. 1985
Brace and Krumlik 1981
Cody et al. 1984a, b
Corns 1983, 1985a, b
Corns and Annas 1984, 1986a, b
Corns et al. 1981
Hall, Morgan, and Bowlby 1985
Holland 1981, 1985
Johnson et al. 1985
Kiil 1982
Lane and Newstead 1980
Powell 1980b
Twardy and Corns 1980

Wells and Zoltai 1985
Zoltai 1980
Zoltai and Tarnocai 1981

Parks Program

Achuff and Corns 1985
Achuff et al. 1984a, b
Allan et al. 1982
Corns and Achuff 1982
Corns et al. 1981
Delisle and Dube 1983
Holland 1984
Holland and Allan 1981
Holland and Coen 1982, 1983
Scotter and Zoltai 1982
Walker, Achuff, Allan, Taylor, Dyck, and Dudynsky 1982
Walker, Taylor, Allan, Coen, and Corns 1982

Remote Sensing and Forest Inventory

Ball 1981
Hall 1982a, b, 1984, 1985
Hall, Crown, and Titus 1984
Hall, Morgan, and Bowlby 1985
Hall, Still, and Crown 1983
Kirby 1980a, b, 1982
Kirby and Chow 1983
Kirby and Hall 1980a-c
Moore and Chow 1983

Soil and Soil Types

Denyer 1984a
Edwards et al. 1981
Holland and Corns 1981
Maynard 1983, 1984
Scotter and Zoltai 1982
Tarnocai and Zoltai 1979
Twardy and Corns 1980
Zoltai and Woo 1979

JACK PINE
(*Pinus banksiana* Lamb.)

Bella 1984a, c
Chrosciewicz 1983b, c
Hargesheimer et al. 1980
Hiratsuka 1981c
Khan and Malhotra 1982a, b, 1983
Klein 1982a, b, 1983, 1986a, b
L'Hirondelle and Addison 1985
L'Hirondelle et al. 1986
Malhotra and Khan 1980, 1981, 1983
Malhotra and Sarkar 1979
Powell 1982c
Walker and Sims 1984

LODGEPOLE PINE
(*Pinus contorta* Dougl. var. *latifolia* Engelm.)

Allen and Hiratsuka 1985
Bella 1983, 1984d, 1985a, b
Bella and De Franceschi 1982
Ives 1983
Johnstone 1981a, b, 1982a, b, 1984
Krebill et al. 1985
Maynard, Addison, and Kennedy 1983a, b
Swanson 1985a
Weetman et al. 1985
Yang 1983a, b, 1984, 1985a, b, 1986
Yang and Bella 1986
Zalasky 1980b

NORTHERN FORESTRY CENTRE PROGRAM

Ascher 1986
Dendwick et al. 1980
Grewal 1985
Johnson et al. 1985
Kirby 1982
Kirby and Chow 1983
Kirby and Hall 1980b
Moody 1982
Newstead and Ascher 1986
Northern Forest Research Centre 1981, 1982, 1983, 1984, 1985
Northern Forestry Centre 1986
Powell 1980c, 1981b, 1982b, 1983a, 1984a-d,
Samoil 1985a, b, 1986a, b
Singh 1985a, 1986a
Swanson 1985b
Têtu-Bernier, Maruyama, and Hiratsuka 1983
Waldron and Samoil 1981

NORTHERN AND ARCTIC PROGRAM

Addison and Bliss 1980, 1984
Cody et al. 1984a, b
Delorme and Zoltai 1984
Dyke and Zoltai 1980
Sakai et al. 1979
Soper and Powell 1985
Tarnocai and Zoltai 1979
Zoltai 1984, 1985
Zoltai and Johnson 1985
Zoltai et al. 1983

Zoltai and Tarnocai 1981
Zoltai and Woo 1979

REGENERATION

Artificial

Ball 1980
Ball and Brace 1982
Ball and Kolabinski 1981, 1986
Ball and Walker 1981
Bohning et al. 1981
Brace 1981
Brace and Golec 1982, 1983
Corns 1985a, b
Dymock and Reid 1981
Gorman 1985
Kolabinski and Ball 1981
Kuhnke and Brace 1986
Malik and Vanden Born 1986
Walker 1981
Walker and Ball 1981
Walker and Johnson 1981
Zalasky 1983a, 1986a, b

Ecology

Achuff and Corns 1985
Bolin and Steele 1985
Brace and Golec 1982, 1983
Chrosciewicz 1980, 1983b, c
Holland and Allan 1981

Natural

Ball 1981
Brace 1981
Brace and Golec 1982, 1983
Brace and Krumlik 1981
Corns and Pluth 1984
Walker and Sims 1984
Wambold 1981
Weetman et al. 1985

Nurseries

Carlson 1983
Cerezke 1981
Dymock and Wilson 1984
Edwards 1981, 1982, 1984c
Edwards and Huber 1982
Halland et al. 1981
Harvey 1986a, b
Huber 1981, 1982
Zalasky 1981, 1983b

Tree Improvement

Klein 1982a, b, 1983, 1986a, b

TOXIC SUBSTANCES

Air

Addison 1982, 1984a-c
Addison, Kennedy, and Maynard 1984
Addison, L'Hirondelle, Maynard, Malhotra, and Khan 1986
Addison, Malhotra, and Khan 1984
Addison and Puckett 1980
Apps 1984
Hargesheimer et al. 1980
Hogan 1984a, b
Hogan and Wotton 1984
Huebert et al. 1985
Joshi 1982
Kennedy 1984
Kennedy et al. 1985
Khan and Malhotra 1982a, b, 1983
L'Hirondelle 1984
L'Hirondelle and Addison 1985
L'Hirondelle et al. 1986
Malhotra and Blauel 1980, 1983
Malhotra and Khan 1980, 1981, 1983, 1984
Malhotra and Sarkar 1979
Maynard, Addison, and Kennedy 1983a, b
Samoil and Turtle 1984b
Sidhu and Staniforth 1986
Wotton and Hogan 1982

Soil

Feng and Klassen 1986
Kalra and Maynard 1986
Maynard 1983
Maynard and Addison 1985
Maynard, Germida, and Addison 1986
Maynard, Stewart, and Bettany 1983a, b, 1984, 1985
Stewart et al. 1983

WATERSHEDS AND HYDROLOGY

Bernier 1982a, b, 1985a, b, 1986a, b
Bernier and Swanson 1986a, b
Hillman 1983
Hillman and Golding 1981
Samoil 1986
Singh 1980, 1983b
Singh and Kalra 1984

Swanson 1980, 1981, 1982, 1983, 1985a, 1986 a-c
Swanson, Benecke, and Havranek 1979
Swanson and Bernier 1986
Swanson and Golding 1982
Swanson, Golding, Rothwell, and Bernier 1986
Swanson and Whitfield 1981
Zoltai 1980, 1983, 1986a, b
Zoltai and Pollett 1983

WHITE SPRUCE
(*Picea glauca* (Moench.) Voss)

Ball 1981
Ball and Kolabinski 1981
Froning 1980
Johnstone 1984